

Docket No.: 87354.1561 (formerly 114292.1561)



PATENT/OFFICIAL

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Craig S. RENDAHL et al.

Serial No. 09/846,375

Filed: May 2, 2001

Group Art Unit: 3929

Examiner: Thanh X Luu

For: APPARATUS AND METHOD FOR MEASURING VEHICLE SPEED AND/OR
ACCELERATION

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents and Trademarks
Washington, D. C. 20231

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449.

It is respectfully requested that the documents be expressly considered and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of the Final Rejection or Notice of Allowance. The requisite fee is submitted herewith. Please charge any fee deficiencies or credit any overpayments to Deposit Account No. 50-236.

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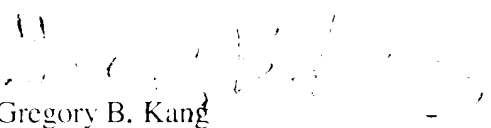
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Attached is our check in the amount of \$180.00 in payment of the fee under 37 CFR §1.17(p). Please credit or debit the Deposit Account No. 50-2036 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.

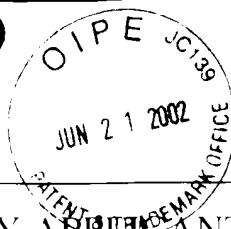
Respectfully submitted,

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U.S. PATENT DOCUMENTS

	EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	TXC	3,811,776	05/21/74	BLAU, JR.	356	51	02/26/73
B	TXC	3,957,372	05/18/76	JOWETT et al.	356	51	12/19/74
C	TXC	3,696,247	10/03/72	MCINTOSH et al.	250	83.3 H	11/12/70
D	TXC	3,958,122	05/18/76	JOWETT et al.	250	346	12/19/74
E	TXC	3,973,848	08/10/76	JOWETT et al.	356	51	12/19/74
F	TXC	4,012,144	03/15/77	HEDELMAN	356	73	08/07/75
G	TXC	4,013,260	3/22/77	MCCLATCHIE et al.	250	343	09/27/74
H	TXC	4,160,373	07/10/79	Fastaia et al.	73	23	02/27/78
I	TXC	4,171,909	10/23/79	KRAMER et al.	356	73	03/25/77
J	TXC	4,204,768	05/27/80	N'GUYEN	356	243	06/16/78
K	TXC	4,310,249	01/12/82	KRAMER	356	414	10/09/79
L	TXC	4,348,732	09/07/82	KREFT	364	571	01/29/80
M	TXC	4,372,155	02/08/83	BUTLER et al.	73	114	05/20/81
N	TXC	4,390,785	06/28/83	FAULHABER et al.	250	330	12/29/80
O	TXC	4,432,316	02/21/84	OGITA	123	328	09/14/81
P	TXC	4,490,845	12/25/84	STEINBRUEGGE et al.	382	1	02/02/82
Q	TXC	4,560,873	12/24/85	MCGOWAN et al.	250	339	06/17/83
R	TXC	4,602,160	07/22/86	MACTAGGART	250	341	09/28/83
S	TXC	4,632,563	12/30/86	LORD, III	356	437	06/12/84
T	TXC	4,638,345	01/20/87	ELABD et al.	357	24	06/01/83

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	EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

V	TXC	Radian Corp.; "Developing an Inspection/Maintenance Program for Alternatively-Fueled Vehicles"; 1993					
W	TXC	ISLAM, Muhammed, RENDAHL, Craig S., CORS, Rebecca; "Wisconsin's Remove Vehicle Emissions Sensing Study"; Final Report 1995					
X	TXC	WALSH, P.A., GERTLER, A.W.; "Texas 1996 Remote Sensing Feasibility Study"; Final Report 1997					
Y	TXC	POPP, Peter J.; "Development of a High-Speed Ultraviolet Spectrophotometer Capable of Real-Time NO and Aromatic Hydrocarbon Detection in Vehicle Exhaust"; pp. 4-3 & 4-12; Coordinating Research Council 1997					
Z	TXC	MCVEY, Iain Frederick; "Development of a Remote Sensor for Mobile Source Nitric Oxide"; University of Denver 1992					
AA	TXC	BEATON, S.P., BISHOP, G.A. and STEDMAN D.H.; "Emissions Characteristics of Mexico City Vehicles; pp. 42, 1424-1429; Journal of Air and Waste Management Assoc. 1992					
BB	TXC	ZHANG, Yi, STEDMAN, Donald H., BISHOP, Gary A., BEATON, Stuart P., GUENTHER, Paul L. and MCVEY, Iain F.; "Enhancement of Remote Sensing for Mobile Source Nitric Oxide"; Journal of Air & Waste Management 1996; vol. 46, pp. 25-29					
CC	TXC	POPP, Peter John; "Remote Sensing of Nitric Oxide Emissions from Planes, Trains and Automobiles"; University of Denver 1999					

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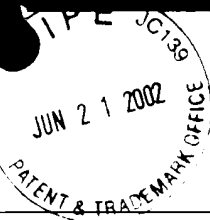
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	EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	TXL	4,663,522	05/05/87	WELBOURN et al.	250	223 R	10/04/85
B	TXL	4,678,914	07/07/87	MELROSE et al.	250	343	04/30/84
C	TXL	4,687,934	08/18/87	PASSARO et al.	250	343	01/10/86
D	TXL	4,710,630	12/01/87	KUPPENHEIMER, JR. et al.	250	353	08/07/85
E	TXL	4,746,218	05/24/88	LORD, III	356	437	09/05/86
F	TXL	4,795,253	01/03/89	SANDRIDGE et al.	356	51	04/24/87
G	TXL	4,818,705	04/04/89	SCHNEIDER et al.	436	164	03/12/87
H	TXL	4,829,183	05/09/89	MCCLATCHIE et al.	250	346	09/11/87
I	TXL	4,868,622	09/19/89	SHIGENAKA	357	30	10/27/87
J	TXL	4,875,084	10/17/89	TOHYAMA	357	30	03/28/88
K	TXL	4,914,719	04/03/90	CONLON et al.	250	339	03/10/89
L	TXL	4,924,095	05/08/90	SWANSON, JR.	250	338.5	11/23/88
M	TXL	4,999,498	03/12/91	HUNT et al.	250	338.5	06/05/89
N	TXL	4,963,023	10/16/90	GOLDOVSKY et al.	356	308	04/17/89
O	TXL	5,002,391	03/26/91	WOLFRUM et al.	356	307	12/02/88
P	TXL	5,041,723	08/20/91	ISHIDA et al.	250	339	09/28/90
Q	TXL	5,061,854	10/29/91	KROUTIL et al.	250	339	04/10/90
R	TXL	5,076,699	12/31/91	RYAN et al.	356	437	05/01/89
S	TXL	5,157,288	10/20/92	HILL	307	511	03/15/91
T	TXL	5,185,648	02/09/93	BAKER et al.	257	189	09/10/91

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U							
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
X	TXL	ZHANG, Yi, STEDMAN, Donald H., BISHOP, Gary A., BEATON, Stuart P., and GUENTHER, Paul L.; "Worldwide On-Road Vehicle Exhaust Emissions Study by Remote Sensing"; Environmental Science & Technology 1995; vol 29#9. Pp.2286-2294					
Y	TXL	GLOVER, Edward L., MICKELSEN, Jan and MCCLEMENT Dennis; "Evaluation of Methods to Determine Catalyst Efficiency in the Inspection/Maintenance Process; Society of Automotive Engineers; SAE#9600092					
Z	TXL	BUTLER, James, GIERCZAK, Christine and LISCOMBE Paula; "Factors Affecting the NDIR Measurement of Exhaust Hydrocarbons"; Coordinating Research Council 1995; pp.4-171 & 4-190					
AA	TXL	MACKAY, Gervase I., NADLER, S. Don, KARECKI, David R., SCHIFF, Harold I., BUTLER, James W., GIERCZAK, Christine A. and JESION, Gerald; "Final Phase 1b Report to the CRC and NREL for Research Performed Under Agreement Number VE-8-2"; Coordinating Research Council 1994					
BB	TXL	PETERSON, James E. and STEDMAN, Donald H.; "Find and Fix the Polluters"; Chemtech 1992; pp.47-53					
CC	TXL	BISHOP, Gary A. and STEDMAN Donald H.; "Infrared Emissions and Remote Sensing"; Journal of Air and Waste Management Assoc. 1992; Vol. 42#5, pp.695-697					
DD	TXL	BISHOP, Gary A., STARKEY, John R., IHLENFELDT, Anne, WILLIAMS, Walter J. and STEDMAN Donald H.; "IR Long-Path Photometry: A Remote Sensing Tool for Automobile Emissions"; Analytical Chemistry 1989; vol. 61#10, pp. 671A-677A					
EXAMINER					DATE CONSIDERED		
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U.S. PATENT DOCUMENTS

	EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	TXC	5,210,702	05/11/93	BISHOP et al.	364	496	12/26/90
B	TXC	5,239,860	08/31/93	HARRIS et al.	73	61.48	05/13/91
C	TXC	5,252,828	10/12/93	KERT et al.	250	339	04/07/92
D	TXC	5,255,511	10/26/93	MAUS et al.	60	274	09/18/92
E	TXC	5,307,626	05/03/94	MAUS et al.	60	274	09/18/92
F	TXC	5,319,199	06/07/94	STEDMAN et al.	250	338.5	06/08/92
G	TXC	5,332,901	07/26/94	ECKLES et al.	250	345	03/15/91
H	TXC	5,343,043	08/30/94	JOHNSON	250	338.5	09/13/93
I	TXC	5,361,171	11/01/94	BLEIER	359	855	03/04/93
J	TXC	5,371,367	12/06/94	DIDOMENICO et al.	250	338.5	04/13/93
K	TXC	5,373,160	12/13/94	TAYLOR	250	338.5	05/04/93
L	TXC	5,401,967	03/28/95	STEDMAN et al.	250	338.5	06/03/94
M	TXC	5,418,366	05/23/95	RUBIN et al.	250	338.5	05/05/94
N	TXC	5,489,777	02/06/96	STEDMAN et al.	250	338.5	03/03/95
O	TXC	5,498,872	03/12/96	STEDMAN et al.	250	338.5	04/21/95
P	TXC	5,545,897	08/13/96	JACK	250	339.13	10/04/94
Q	TXC	5,583,765	12/10/96	KLEEHAMMER	364	423.098	08/23/94
R	TXC	5,591,975	07/07/97	JACK et al.	250	338.5	10/05/94
S	TXC	5,621,166	04/15/97	BUTLER	73	116	04/06/95
T	TXC	5,644,133	07/01/97	DIDOMENICO et al.	250	338.5	07/25/95

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U							

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V	TXC	AXELSSON, Hakan, EILARD, Anders, EMANUELSSON, Annika, GALLE, Bo, EDNER, Hans, REGNARSON Par and KLOO Henrik; "Measurement of Aromatic Hydrocarbons with the DOAS Technique"; Applied Spectroscopy 1995; vol. 49#9, pp.1254-1260					
W	TXC	BAUM, Marc M., KIYOMIYA, Eileen S., KUMAR Sasi and LAPPAS, Anastasios M.; "Multicomponent Remote Sensing of Vehicle Exhaust by Dispersive Absorption Spectroscopy. 1. Effect of Fuel Type and Catalyst Performance"; Environmental Science and Technology 2000; pp. 34 & 2851-2858					
X	TXC	STEDMAN, Donald H. and SMITH, Dennis L.; "NO _x Data by Remote Sensing"; Coordinating Research Council 1995; pp. 4-47 & 4-63					
Y	TXC	SHORE, P.R. and DEVRIES, R.S.; "On-line Hydrocarbon Speciation Using FTIR and CI-MS"; Society of Automotive Engineers 1992; SAE #922246					
Z	TXC	BISHOP, Gary A. and STEDMAN, Donald H.; "On-Road Carbon Monoxide Emission Measurement Comparisons for the 1988-1989 Colorado Oxy-Fuels Program"; Environmental Science & Technology 1990; pp. 24 & 843-847					
AA	TXC	STEDMAN, Donald H., BISHOP, Gary, PETERSON, James E., and GEUNTER, Paul L.; "On-Road CO Remote Sensing in the Los Angeles Basin"; CA-EPA (CARB) 1991; pp. 24 & 843-847					
BB	TXC	x-Rite Incorporated; "A Guide to Integrating Sphere Theory and Applications"; 2002; www.labsphere.com					
CC	TXC	GEUNTER, Paul L., STEDMAN, Donald H., BISHOP, Gary A., BEATON, Stuart P., BEAN, James H. and QUINE Richard W.; "A Hydrocarbon Detector for the Remote Sensing of Vehicle Exhaust Emissions"; Review of Scientific Instruments 1994; vol. 66(4), pp. 3024-3029					

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	EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	TXC	5,719,396	02/17/98	JACK et al.	250	338.5	07/01/96
B	TXC	5,726,450	03/10/98	PETERSON et al.	250	338.5	10/26/96
C	TXC	5,797,682	08/25/98	KERT et al.	374	123	01/31/97
D	TXC	5,812,249	09/22/98	JOHNSON et al.	356	28	09/26/96
E	TXC	5,831,267	11/03/98	JACK et al.	250	338.5	02/24/97
F	TXC	5,922,948	07/13/99	LESKO et al.	73	117.3	01/09/95
G	TXC	6,057,923	05/02/00	SACHSE	356	364	04/13/99
H	TXC	6,230,087	05/08/01	DIDOMENICO et al.	701	29	02/11/00
I	TXC	6,307,201	10/23/01	DIDOMENICO et al.	250	339.13	12/31/98
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K	TXC	STEPHENS, Robert D., MULAWA, Patricia A., GILES, Michael T., KENNEDY, Kenneth G., GROBLICKI, Peter J. and CADLE, Steven H.; "An Experimental Evaluation of Remote Sensing-Based Hydrocarbon Measurements: A Comparison to FID Measurements"; Journal of Air and Waste Management Assoc. 1996; pp. 46 & 148-158					
L	TXC	STEDMAN, Donald H.; "Automobile Carbon Monoxide Emissions"; Environmental Science and Technology 1989; Vol. 23#2, pp. 147-149					
M	TXC	ADACHI, Masayuki, YAMAGISHI, Yutaka, INOUE Kaori and ISHIDA, kozo; "Automotive Emissions Analyses using FTIR Spectrophotometer"; Society of Automotive Engineers 1992; SAE #920723					
N	TXC	KOPLow, Michael D., JIMENEZ, Jose L., NELSON, David D., SCHMIDT, Stephan E.; "Characterization of On-Road Vehicle NO Emissions by Means of a TILDAS Remote Sensing Instrument"; Coordinating Research Council 1997; pp. 8-35 & 8-62					
O	TXC	GUENTHER, Paul Leonard; "Contributions to On-Road Remoter Sensing of Automobile Exhaust"; University of Denver 1992					
P	TXC	COX, Frank W., WALLS, John R. and CARREL, Mark W.; "Determination of Catalyst Oxidation and Reduction Efficiencies from Tailpipe Emissions Measurements"; Society of Automotive Engineers 1997; SAE #972911					
Q	TXC	LAWSON, Douglas R., GROBLICKI, Peter J., STEDMAN, Donald H., BISHOP, Gary A. and GUENTHER Paul L.; "Emissions from In-use Motor Vehicles in Los Angeles: A Pilot Study of Remote Sensing and the Inspection and Maintenance Program"; Journal of Air and Waste Management Assoc. 1990; vol. 40#8, pp.1096-1105					
R	TXC	STEDMAN, Donald H., BISHOP, Gary A. and PITCHFORD, Marc L.; "Evaluation of a Remote Sensor for Mobile Source CO EMISSIONS"; University of Denver 1991; Rpt.# EPA 600/4-90/032					
S	TXC	MCLAREN, Scott E., STEDMAN, Donald H., GREENLAW, Pamela D., BATH, Raymond J., and SPEAR, Richard D.; "Comparison of an Open Path UV and FTIR Spectrometer; Air and waste Management Assoc. 1992; vol. 92-73.10					
T	TXC	BISHOP, Gary A., ZHANG, Yi, MCLAREN, Scott E., GUENTHER, Paul L., BEATON, James E., STEDMAN, Donald H., DUNCAN, John W., MCARVER, Alexander Q., PIERSON, William R., GROBLICKI, Peter J., KNAPP, kenneth T., ZWEIDINGER, Roy B. and DAY, Frank J.; "Enhancements of Remote Sensing for Vehicle Emissions in Tunnels; Journal of Air and waste Management 1994; vol. 44, pp. 169-175					
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E							
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F	TXL	MCLAREN, Scott E. and STEDMAN, Donald H.; "Flux Measurements Using Simultaneous Long Path Ultraviolet and Infrared Spectroscopy"; Air and Waste Management Assoc. 1990; Vol. 90-86.6					
G	TXL	BISHOP, Gary A., MCLAREN, Scott E., STEDMAN, Donald H., PIERSON, William R., ZWEIDINGER, Roy B. and RAY, William D.; "Method Comparisons of Vehicle Emissions Measurements in the Fort McHenry and Tuscarora Mountain Tunnels"; Atmospheric Environment 1996; Vol. 30#12, pp. 2307-2316					
H	TXL	MCLAREN, Scott; "Open Path Spectrometers for Atmospheric Monitoring"; University of Denver 1995					
I	TXL	STEDMAN, Donald H. and BISHOP, Gary A.; "An Analysis of On-Road Remote Sensing as a Tool for Automobile Emissions Control"; Illinois Dept. of Energy & Natural Resources 1990; ILENR/RE-AQ-90/05					
J	TXL	STEDMAN, Donald H., PETERSON, James E. and MCVEY, IAIN F.; "On-Road Carbon Monoxide and Hydrocarbon Remote Sensing in the Chicago Area"; Illinois Dept. of Energy & Natural Resources 1991; ILENR/RE-AQ-91/14					
K	TXL	LYONS, Carol E. and STEDMAN, Donald H.; "Remote Sensing Enhanced Motor Vehicle Emissions Control for Pollution Reduction in the Chicago Metropolitan Area: Siting and Issue Analysis"; Illinois Dept. of Energy & Natural Resources 1991; ILENR/RE-AQ-91/15					
L	TXL	DURBIN, Thomas D., TRUEX, Timothy J. and NORBECK, Joseph M.; "Particulate Measurements and Emissions Characterizations of Alternative Fuel Vehicle Exhaust"; National Renewable Energy Laboratory 1998; NREL/SR-540-25741; Subcont# ACI-7-16637-01					
M	TXL	DIDOMENICO, John, JOHNSON, Jim, WEBSTER, Jason and RENDAHL, Craig S.; "Preliminary Results from Cold Start Sensor Testing"; Coordinating Research Council 1997; pp. 4-71 & 4-72					
N	TXL	STEPHENS, Robert D. and CADLE, Steven H.; "Remote Sensing Measurements of Carbon Monoxide Emissions from On-Road Vehicles"; Journal of Air and Waste Management Assoc. 1991; Vol. 41#1, pp. 39-46					
O	TXL	JIMENEZ, Jose L., MCRAE, Gregory J., NELSON, David D., ZAHNISER, Mark S. and KOLB, Charles E.; "Remote Sensing of NO and NO ₂ Emissions from Heavy-Duty Diesel Trucks Using Tunable Diode Lasers"; Environmental Science & Technology 2000; pp. 34 & 2380-2387					
P	TXL	STEDMAN, Donald H., BISHOP, Gary A., GUENTHER, Paul L., PETERSON, James E., BEATON, Stuart P. and MCVEY, Iain F.; "Remote Sensing of On-Road Vehicle Emissions"; University of Denver 1992; Contract #VE-8-1					
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S	TXL	SINGER, Brett C., HARLEY, Robert A., LITTLEJOHN, David, HO, Jerry and VO, Thu; "Scaling of Infrared Remote Sensor Hydrocarbon Measurements for Motor Vehicle Emission Inventory Calculations"; Environmental Science and Technology 1998; vol. 32#21, pp. 3241-3428					
T	TXL	ATKINSON, Chris M., MCKAIN, David L., GAUTAM, Mridul, EL-GAZZAR, Laila, LYONS, Donald W. and CLARK, Nigel N.; "Speciation of Heavy Duty Diesel Engine Exhaust Emissions"; Coordinating Research Council 1995; pp. 5-71 & 5-92					
U	TXL	CHANEY, Lucian W.; "The Remote Measurement of Traffic Generated Carbon Monoxide"; Journal of Air Pollution Control Assoc. 1983; vol. 33#3, pp. 220-222					
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W	TXL	HOSHIZAKI, H., WOOD, A.D and KEMP, D.D.; "Vehicle Inspection Instrumentation"; Lockheed Missiles & Space Company 1973; ARB-3C-235-7					
X	TXL	SIGSBY, JR., John E., TEJADA, Silvestre and RAY, William; "Volatile Organic Compound Emissions from 46 In-Use Passenger Cars"; Environmental Science & Technology 1987; pp. 21 & 466-475					

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.